Death or Death Decision

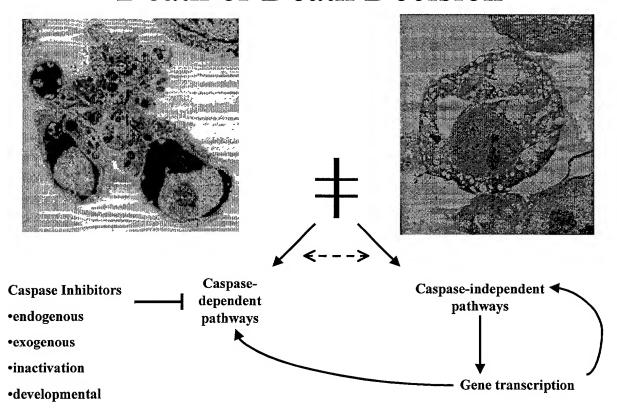
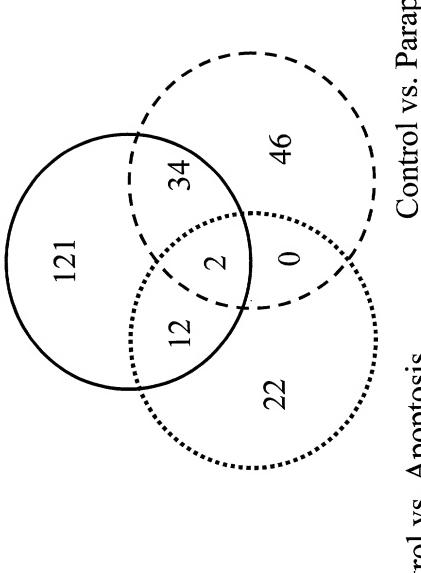


Figure 1

1.7 fold or greater differential expression Induced and repressed genes combined 200 or greater probe signal strength 50% or greater spot area

Apoptosis vs. Paraptosis



Control vs. Apoptosis

Control vs. Paraptosis

those in the intersections are common to both experiments. Note the lack of overlap (only 2 of 116 transcripts) between paraptosis Numbers in circles indicate the number of differentially expressed genes identified using a 7075 gene Human unigene cDNA gene expression microarray. Numbers in the outer portions of tehcircles are the uniquely expressed genes,

and apoptosis.

FIGURE 2

Apoptosis vs. Paraptosis: Inhibitors

	Apoptosis	<u>Paraptosis</u>
p35	Inhibits	No
xiap	Inhibits	No
zVAD.fmk	Inhibits	No
BAF	Inhibits	N_0
Bcl-xL	Inhibits	No
Bcl-2	Inhibits	No

Apoptosis vs. Paraptosis: Morphology

	Apoptosis	<u>Paraptosis</u>
Nuclear	Yes	No
fragmentation		
Chromatin	Yes	Slight
condensation		
Cytoplasmic	No	Yes
vacuolation		
Mitochondrial	Some	Some
swelling		
Blebbing	Yes	N_0
Apoptotic	Yes	$ m N_0$
bodies		

Apoptosis vs. Paraptosis: Biochemistry

	Apoptosis	<u>Paraptosis</u>
DEVD-cleaving Yes	Yes	No
Caspase-3	Yes	No
processing	Vos	No
staining		
Internucleo-	Yes	No
somal DNA		
cleavage		

FIGURE 5